



PTO/SB/08A (10-01)

Approved for use through 10/31/2002 OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known		
			Application Number	09/903,028	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Filing Date	July 11, 2001	
			First Named Inventor	Nuggehally JAYANT et	
			Art Unit	1614	
			Examiner Name	Not Yet Assigned	
			Attorney Docket Number	9136.015.00	
Sheet	1	of	1		

RECEIVED

Technology Center 2600
MAR 11 2003

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DPA	AA	5,023,919	6/11/1991	Wataya	
	AB				
	AC				
	AD				
	AE				
	AF				
	AG				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA					
	BB					
	BC					
	BD					
	BE					
	BF					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DPA		VANDER KAM R A ET AL.; Edge Enhancement in Clustered-Dot Dithering; Proceedings of the International Conference on Image Processing (ICIP); Lausanne, Sept. 16-19, 1996, New York; IEEE, Us; pages 857-860	
DPA		LAW T ET AL.; IMAGE FILTERING; EDGE DETECTION, AND EDGE TRACING USING FUZZY REASONING; Vol. 18, May 1996; pages 481-491	
DPA		JIA-GUO LEU; Image Contrast Enhancement Based on the Intensities of Edge Pixels CVGIP Graphical Models and Image Processing, Academic Press, Duluth, MA, Vol. 54 pages 497-506	
DPA		TRUJILLO A; Thin Edge Detector; Image Analysis and Processing, 1999 Proceedings; International Conference on Venice, Italy, 27-29 Sept. 1999, Pages 1051-1054	
DPA		ROSENFELD A ET AL.; Digital Picture Processing, Digital Picture Processing, Orlando, Academic Press, U.S., Vol. 2, 1982, pages 84-138	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	May 13, 04
-----------------------	--	--------------------	------------